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ATTORNEY DOCKET NO. FIRST NAMED INVENTOR FILING DATE APPLICATION NO. M4065.0226/F JIANG 01/18/00 09/484,437 **EXAMINER** MM21/0925 MITCHELL, J Dickstein Shapiro Morin & Oshinsky LLP PAPER NUMBER ART UNIT 2101 L Street NW Washington DC 20037-1526 2822

Please find below and/or attached an Office communication concerning this application or

DATE MAILED:

**Commissioner of Patents and Trademarks** 

09/25/01

proceeding.

Office Action Summary    Summer   Lames   Michel    2822    -The MAILING DATE of this communication appears on the cover sheet with the correspondence address	•		Application No	Application No.		Applicant(s)	
James Mitchell   2822			09/484,437		JIANG, TONGBI		
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply Period for Pe			Examiner		Art Unit		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION  and SX 59 MONTHS from the maining date of the communication.  If the gened for only specifies beginned in the communication is the property of the Office Indiana.  1) Responsive to communication(s) filled on 18 January 2000.  2a) This action is FINAL.  2b) This action is non-final  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C D. 11, 453 O G 213  Disposition of Claims  4) Claim(s) 1-30 Islane pending in the application.  4a) Of the above claim(s) 21-30 Islane withdrawn from consideration.  5) Claim(s) islane allowed.  6) Claim(s) islane objected to by the Examiner.  7) Claim(s) are subject to restriction and/or election requirement.  Application Papers  9) The specification is objected to by the Examiner.  10) The drawing(s) field on islane islane: election the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on islane. Islane: election requirement.  11) Some of the priority documents have been received by the Examiner.  12) The oath or declaration is objected to by the Examiner.  13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  3) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(a)-(d) or provisional application).  3) Copies of the certified copies of the priority documents have been received in this National Stage application from the international Bureau (PCT Rule 17.2(a)).  *See the attached detailed office actio			<u> </u>				
THE MAILING DATE OF THIS COMMUNICATION.  Editerations of time may be available under the proteon of 3 CFR 1.15(6). In no event, however, may a reply be timely fred start SIX (6) MONTHS from the maining date of this communication.  If the proteod comply specified across it less than hims (20) days, a reply within the sature; minimum of thing (2) days are lift to consider the completed of the communication.  Fallules to reply within the set or extended protein for reply will, by starter, cause the application to become ABANDONED (3s U. S. C. § 1.13).  Any reply received by the Office that than niver moritine ster the mailing date of this communication, even if timely filled, may reduce any searched placed term adjustment. See 37 CFR 1.70(b).  Status  1) Responsive to communication(s) filled on 18 January 2000.  2a) This action is FINAL.  2b) This action is non-final.  3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) Claim(s) 1-20 is/are pending in the application.  4a) Of the above claim(s) 21-30 is/are withdrawn from consideration.  5) Claim(s) 1-20 is/are rejected.  7) Claim(s) is/are allowed.  6) Claim(s) is/are objected to by the Examiner.  Application Papers  9) The specification is objected to by the Examiner.  Application Papers  9) The proposed drawing correction filed on is/are: a) accepted or b) objected to by the Examiner.  Application Papers is a communication of protein priority under 35 U.S.C. § 119(a)-(d) or (f).  a) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) Acknowledgment is made of a claim for foreign priority documents have been received in this National Stage application from the International Bureau (PCT Rul 1-17 (2)).  *See the attached detailed Office action for domestic priority under 35 U.S.C. § 120 and/or 121.  Attachment(s)  1) Notice of Preferences Cited	··						
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#### **DETAILED ACTION**

1. This office action is in response to the application filed January 18, 2000.

#### Election/Restrictions

- 2. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claims 1-20 drawn to a device, classified in class 257, subclass 783.
  - II. Claims 21-19 drawn to a process of manufacture, classified in class 438, subclass 118.
- 3. The inventions are distinct, each from the other because of the following reasons:
- 4. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process. For example, the attachment of a device to a substrate with an adhesive that is cured above 100° C.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 6. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143). Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37

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CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

7. During a telephone conversation with Bill Pau on September 19, 2001 a provisional election was made without traverse to prosecute the invention of group I., claims 1-20. Affirmation of this election must be made by applicant in replying to this Office action. Claims 21-30 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

#### **Drawings**

8. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).

## Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 1-6,9-16,19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (APA).
- 11. The admitted prior art discloses a solder mask (18) with contact (22) and a die (12) with a contact (20) wherein the contact are in contact by a wire (28), said contact free from contaminants of adhesive (14) via the physical separation.

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12. In regard to claims 1-6,9-17,19 and 20, a method of making characteristic is given no patentable weight in determining patentability of the final device structure. Note that a "product by process" claim is directed to the product per se, no matter how actually made. *In re Thorpe*, 227 USPQ 964 (Fed.Cir.1985). Case law makes it is clear that it is the patentability of the final product per se which must be determined in a "product by process" claim, not the patentability of the process, and that an old or obvious product produced by a new method is not a patentable product, whether claimed in "product by process" or not.

- 13. Claims 7,8,17 and18 are rejected under 35 U.S.C. 103(a) as being unpatentable over the admitted prior art (APA) in view of Dershem et al. (U.S 6,034,194).
- 14. The prior art (APA) discloses the elements stated in paragraph 5.
- 15. APA does not disclose said adhesive comprising Bismaleimide (BMI), however Dershem utilizes an adhesive comprising BMI for attachment of a die (Lines 1-7, Column 1).
- 16. It would have been obvious to one of ordinary skill in the art to form the adhesive of the admitted prior art with a BMI material in order to provide good adhesion to the device and the attached substrate as taught by Dershem (abstract).

### Conclusion

17. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Schrock (U.S 6,221,691).

The prior art discloses in Schrock the use of BMI as an adhesive.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Mitchell whose telephone number is (703) 305-0244. The examiner can normally be reached on M-F 10:30-8:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on (703) 308-4083. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-3432 for regular communications and (703) 305-3230 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

jmm

September 19, 2001

CARL WHITEHEAD, JR.

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Carl Shitchead L